

Title (en)  
POLYMER CONTAINING THIOPHENE-BENZENE-THIOPHENE UNIT, PREPARATION METHOD THEREFOR AND SOLAR CELL DEVICE

Title (de)  
POLYMER MIT EINER THIOPHEN-BENZEN-THIOPHEN-EINHEIT, HERSTELLUNGSVERFAHREN DAFÜR UND SOLARZELLENVORRICHTUNG

Title (fr)  
POLYMÈRE CONTENANT UN THIOPHÈNE-BENZÈNE-THIOPHÈNE, SON PROCÉDÉ DE PRÉPARATION ET CELLULE SOLAIRE ASSOCIÉE

Publication  
**EP 2826803 A1 20150121 (EN)**

Application  
**EP 12870996 A 20120312**

Priority  
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Abstract (en)  
A polymer containing thiophene-benzene-thiophene unit has the following formula: R 1 represents C 1 to C 20 alkyl, R 2 represents C 1 to C 20 alkyl, n is an integer from 10 to 100. An energy gap of the polymer containing thiophene-benzene-thiophene unit is narrow, and therefore the power conversion efficiency is improved greatly. A method of preparing the polymer containing thiophene-benzene-thiophene unit and a solar cell device using the polymer containing thiophene-benzene-thiophene unit are also provided.

IPC 8 full level  
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CPC (source: EP US)  
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